PATENT Case No. 21484P

1624

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:

Paul J. Coleman, et al.

Serial No.

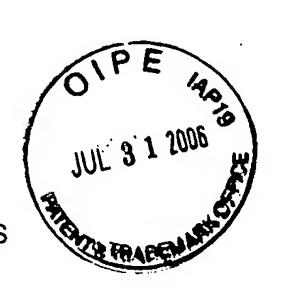
10/567,249

Filed:

February 6, 2006

For:

MITOTIC KINESIN INHIBITORS



Art Unit: To be determined

Examiner:

To be determined

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

# INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

Sir:

- 1. In compliance with 37 C.F.R. 1.97, submitted on the attached form herewith is a list of patents, publications or other information which are requested to be made of record in this application. This Information Disclosure Statement is not an admission that any patent, publication or other information referred to herein is "prior art" for this invention. In accordance with 37 C.F.R. 1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. 1.56(b).
- 2. In accordance with 37 C.F.R. 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.
- 3. Applicants respectfully request that the Examiner initial the attached form after reviewing the pertinence of each reference.
- 4. Pursuant to 37 C.F.R. 1.98 (a)(2)(ii), copies of each cited U.S. patent and each U.S. patent application publication are not enclosed herewith.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on the date appearing below.

MERCK & CO., INC.

Date

JUL 3 1 2006

## INFORMATION DISCLOSURE STATEMENT

5. Pursuant to 37 C.F.R. .98(d), copies of references listed on the attached form that were submitted to or cited by the Office in a related application upon which the instant application relies for an earlier filing date under 35 U.S.C. 120 are not enclosed. Related application(s) in which references were submitted to or cited by the Office are as follows:

	DELATED AD	DI ICATION
	RELATED AP	FLICATION
U. S. SERIAL NUMBER	FILING DATE	MERCK CASE
If this is inconvenient, additional copies will be submitted upon requ	uest.	
6. In accordance with 37 C.F.R. 1.97, (check one)		
the attached information is filed within three months of the filing	date of the captioned case.	
the attached information is filed more than three months after the Office Action on the merits.	ne filing date but prior to the i	mailing of a first
the attached information is filed before the mailing of a first Offi examination under §1.114.	ce action after the filing of a r	request for continued
the attached information is being filed more than three months Office Action on the merits, but before the mailing date of a Fin otherwise closes prosecution in the application. The enclosed	al Action, Notice of Allowance	e, or an action that

each item of information contained in this Information Disclosure Statement was first cited in any communication

each item of information contained in the information disclosure statement was first cited in any communication

designated in §1.56(c) more than thirty days prior to the filing of the information disclosure statement.

from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this

from a foreign patent office in a counterpart application and this communication was not received by any individual

Account No. 13-2755 for the fee required under 37 C.F.R. 1.17(p).

no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated under 37 C.F.R. 1.56(c) more than three months prior to the filing of this Statement.

Respectfully submitted,

By: David A. Muthard

Attorney For Applicant(s)

Reg. No. <u>35,297</u>

MERCK & CO., INC.

Patent Dept., RY60-30

P.O. Box 2000

Rahway, N.J. 07065-0907

(732)594-<u>3903</u>

Date: <u>July 28, 2006</u>

Statement.



#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Mail Stop: Amendment Commissioner of Patents

PO Box 1450

Alexandria, Virginia 22313-1450

### EXPLANATION OF RELEVANCE OF NON-ENGLISH DOCUMENTS UNDER 37 C.F.R. 1.98(a)(3)(i)

Sir:

Applicants respectfully note that two (2) of the documents listed on the USPTO 1449 form submitted herewith are not in the English language and a copy of an English translation of those documents are not within the possession, custody or control of Applicants, and, to the Applicants knowledge, are not readily available. Below is a concise explanation of the relevance of those non-English documents:

The French scientific publication by O. Yebdri and F. Texier (*Bull. Soc. Chim. Fr.*) discloses preparation of a series of 2,3-dihydro-4-phenyl pyrrole compounds having nitrile and ester disubstitution on the 3-position. The Yebdri publication also describes saponification of the ester to provide the corresponding 2,5-dihydropyrrole compound (see for instance compound 19). There is no disclosure in the Yebdri publication of a pharmaceutical use for the compounds disclosed therein.

The French scientific publication by A. Ranjon (*Bull. Soc. Chim. Fr.*) discloses photooxidation reactions of polyphenyl imidazole and polyphenyl pyrrole compounds in which 2,5-endoperoxide derivatives are transient intermediates. The Ranjon publication also describes dihydroxypyrrole intermediates in such reactions (see for instance compound 29). There is no disclosure in the Ranjon publication of a pharmaceutical use for the compounds disclosed therein.

The instant invention discloses certain substituted 2,4-diaryl-2,5-dihydropyrroles that are inhibitors of the mitotic kinesin KSP and are useful in the treatment of cancer.

#### **CERTIFICATE OF MAILING**

I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VIRGINIA 22313-1450, ON THE DATE APPEARING BELOW.

MERCK & CO., INC.

RV. DATE:

Date: July 28, 2006

Respectfully submitted,

David A. Muthard

Reg. No. 35,297

Attorney for Applicant(s)

MERCK & CO., INC.

P.O. Box 2000

Rahway, New Jersey 07065-0907

(732) 594-3903

	Substitute for form 1449A/PTO			COMPLETE IF KNOWN		
	INFORMATION	QISCL	OSURE	Application Number	10/567,249	
	CT A THATENIT DX	A CONT	T.C.A.NIT	Filing Date	February 6, 2006	
	STATEMENT BY	RAY IN L	ICANI	First Named Inventor	Paul J. Coleman	
	12	8/		Group Art Unit	To be determined	
·	(use as many sheets	nece.	ssary)	Examiner Name	To be determined	
Shee	1	of	3	Attorney Docket Number	21484P	

			U.S. PA	ATENT DOCUMENTS	
Examiner Initials*	Cite No.	U.S. Patent Document Number	Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		6,057,342		Fevig et al.	05/02/2000
	· •	6,440,686		Sakowicz	08/27/2002
-		3,644,414		Helsey, et al.	02/22/1972
	-				

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No.	Office	Foreign Patent Documen  Number	nt Kind Code (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		PCT	WO 93/20099		Yamanouchi Pharm. Co., Ltd.	10/14/1993
		PCT	WO 98/06694		The DuPont Merck Pharm. Co.	02/19/1998
		PCT	WO 03/049527		Merck & Co., Inc.	06/19/2003
		PCT	WO 03/105855		Merck & Co., Inc.	12/24/2003
		PCT	WO 2004/037171		Merck & Co., Inc.	05/06/2004
		PCT	WO 03/106417		Merck & Co., Inc.	12/24/2003
		PCT	WO 2005/019206		Merck & Co., Inc.	03/03/2005
	,	PCT	WO 2005/019205		Merck & Co., Inc.	03/03/2005
		EPO	EP 0 418 845		Fujisawa Pharmaceutical Co., Ltd.	08/09/1995
	, <del></del> -					

Examiner Signature Date Considered

<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MI'EP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Su	Substitute for form 1449B/PTO			COMPLETE IF KNOWN	
	NFORMATION DISCL	OSURE	Application Number	10/567,249	
C	TATEMENT BY APPL	I C' A NITT	Filing Date	February 6, 2006	
3	1 31	ICANI	First Named Inventor	Paul J. Coleman	
	JUL 3 1 2006 (C)		Group Art Unit	To be determined	
	(as as many sheets) neces	ssary)	Examiner Name	To be determined	
Sheet	of	3	Attorney Docket Number	21484P	

er(s) and place of publication.
g. 195-201
8-2072
-621
2045 (2005)
.003)
75-1779 (2006)

Examiner Signature	Date Considered	

<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450. Computer generated form "IDS Form" (IDS Folder), Merck & Co., Inc., -7/12/2005)

Substitute for form 1449B/PTO		COMPLETE IF KNOWN
INFORMATION DISCLOSURE	<b>Application Number</b>	10/567,249
STATEMENT BY APPLICANT	Filing Date	February 6, 2006
	First Named Inventor	Paul J. Coleman
JUL 3 1 2006  (use as many sheets as necessary)	Group Art Unit	To be determined
	Examiner Name	To be determined
Sheet 3 of 3	Attorney Docket Number	21484P

	NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author, title, date, page(s), volume-issue number(s) and place of publication.		
		R. Garbaccio, et al., Bioorganic & Medicinal Chem Ltrs., Vol. 16, pgs. 1780-1783 (2006)		
		C. Cox, et al., Bioorganic & Medicinal Chem Ltrs., Vol. 16, pgs. 3175-3179 (2006)		
	,			

Examiner Signature	Date Considered	

<sup>\*</sup>Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SEND TO: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450. Computer generated form "IDS Form" (IDS Folder), Merck & Co., Inc., -7/12/2005)